

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
June 2002**

Prepared by the  
Office of the Delaware River Master  
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during June was excessive. The maximum daily mean discharge of 18,800 cfs occurred on June 8. The minimum daily mean discharge was 2,740 cfs on June 30.

On the basis of a 12-station average, precipitation during June was 6.32 inches, which is 160 percent of the 61-year average. The maximum daily-average precipitation during the month was 1.55 inches on June 7. Precipitation in the upper Delaware River Basin during the past 12 months was 4.47 inches less than the long-term average. Precipitation during June was 2.36 inches more than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 7,194 cfs, which is 225 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 8,938 cfs, or 226 percent of median (water years 1961-90).

Combined storage July 1, 2002 in Pepacton, Cannonsville, and Neversink Reservoirs was 89 percent of capacity above the point of maximum depletion. The combined storage of 241 billion gallons was 19 billion gallons more than that of one month ago and 10 billion gallons less than that of one year ago. Median storage on the first day of July in 35 years of record is 257 billion gallons.

As part of a statewide network, the USGS operates 12 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during June were below average in 7 of the wells. Water levels in 8 of the wells were trending downward in comparison to May levels, and water levels in 8 of the wells were below June 2001 levels.

# HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

## PRECIPITATION, IN INCHES

	Dec. 1940 to June 2001		July 2001 to June 2002					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.09	43.22	2.49	38.75	61	90	-1.60	-4.47
Aug.	3.85	39.13	2.84	36.26	74	93	-1.01	-2.87
Sept.	3.83	35.28	5.37	33.42	140	95	+1.54	-1.86
Oct.	3.38	31.45	1.28	28.05	38	89	-2.10	-3.40
Nov.	3.83	28.07	1.37	26.77	36	95	-2.46	-1.30
Dec.	3.36	24.24	2.80	25.40	83	105	-.56	+1.16
Jan.	3.00	20.88	1.69	22.60	56	108	-1.31	+1.72
Feb.	2.65	17.88	1.41	20.91	53	117	-1.24	+3.03
Mar.	3.35	15.23	3.47	19.50	104	128	+.12	+4.27
Apr.	3.73	11.88	3.71	16.03	99	135	-.02	+4.15
May	4.19	8.15	6.00	12.32	143	151	+1.81	+4.17
June	3.96	3.96	6.32	6.32	160	160	+2.36	+2.36

Note: Amount shown in cumulative columns is total from month shown to present.

## STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2000			2002 Monthly mean	Percent of median
	Maximum	Median	Minimum		
June (observed)	15,200 (1972)	3,199	1,214 (1965)	7,194	225
June (adjusted)	16,010 (1972)	3,948	1,024 (1962)	8,938	226
July (observed)	11,220 (1945)	2,486	864 (1954)		
July (adjusted)	11,470 (1945)	2,193	391 (1965)		